

United States Patent and Trademark Office

1

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/028,739	12/21/2001	Sander Bogdan	MS1-870US 9907		
22801	7590 07/26/2005	EXAMINER		INER	
LEE & HAY	'ES PLLC RSIDE AVENUE SUITE 500	RAMPURIA, SATISH			
SPOKANE, WA 99201			ART UNIT	PAPER NUMBER	
			2191		
			DATE MAIL ED: 07/26/200	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)			
	Office Action Comments	10/028,73	9	BOGDAN ET AL.			
	Office Action Summary	Examiner		Art Unit			
·		Satish S. F	·	2191			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exter after - If the - If NC - Failu Any I	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIO msions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply within the set or extended period fo	CATION. 137 CFR 1.136(a). In no evenication. days, a reply within the statutory period will apply and will, by statute, cause the appl	int, however, may a reply be tim itory minimum of thirty (30) days Il expire SIX (6) MONTHS from ication to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed on <u>28 April 2005</u> .						
2a) <u></u> □	This action is FINAL. 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
-	Claim(s) <u>1-41</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
-	☐ Claim(s) <u>1-41</u> is/are rejected. ☐ Claim(s) is/are objected to.						
•		on and/or election re	-auirement				
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
	·						
•	The specification is objected to by the		¬				
10)	The drawing(s) filed on is/are:		-				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
				•			
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:							
i apor no(a)nitali Date							

Art Unit: 2191

Response to Amendment

1. This action is in response to the amendment received on 04/28/2005.

- 2. The objection to use of trademarks is withdrawn in view of applicant's amendment.
- 3. The rejection under 35 U.S.C. §101 to claims 1-12 and 19-24 is withdrawn in view of applicant's amendment.
- 4. Claims amended by the applicant: 1, 15, 19 and 25.
- 5. Claims pending in the application: 1-41.

Claim Rejections - 35 USC § 101

6. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

7. Claims 25-33 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 25-33 are not limited to tangible embodiments. In view of Applicant's disclosure, specification page 36, the medium is not limited to tangible embodiments, instead being defined as including both tangible embodiments (e.g., computer readable medium) and intangible embodiments (e.g., transmission media, radio frequency (RF), infrared (IR), a carrier wave, telephone line, a signal, etc.). As such, the claim is not limited to statutory subject matter and is therefore non-statutory.

To overcome this type of 101 rejection the claims need to be amended to include only the physical computer media and not a transmission media or other intangible or non-functional

Art Unit: 2191

media. For the specification at the bottom, carrier medium and transmission media would be not statutory but storage media would be statutory.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 1-3, 4, 6-17, 19-21, 23-27, 29-38, and 40-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,138,271 to Keeley (hereinafter called Keeley) in view of US Patent No. 5,325,533 to McInerney et al. (hereinafter called McInerney).

Per claim 1:

Keeley disclose:

- creating a software development kit object (SDK object) for at least some of a plurality of development files in a source operating system that includes development files and components (col. 2, lines 62-65 "a software development system including a modular operating system program having a plurality of modules each providing an operating system operation that may be called by an application program");
- identifying features of the source operating system to be included in a modularized system that is a subset of the source operating system (col. 3, lines 28-30 "identify both operating system modules and portions of those modules needed for the application program");

- selecting the development files that correspond to the identified SDK objects (col. 3, lines
 10-11 "selected modules may be collected and reformed into a smaller operating
 system"); and
- exporting the selected development files to a software development kit (SDK) that
 supports development of applications for use with the modularized system (col. 3, lines
 4-7 "selective compiler program receiving the OS module list prepares an operating
 system comprised of only those modules of the modular operating system necessary to
 perform the application").

Keeley does not explicitly disclose tracing dependencies in a dependency model correlating to the source operating system that uses the SDK objects to identify SDK objects corresponding to development files that are required to support the identified features.

However, McInerney discloses in an analogous computer system tracing dependencies in a dependency model correlating to the source operating system (col. 3, lines 41-42 "system automatically keeps track of editing changes in components" and col. 3, lines 45-46 "Dependency analysis is automatic and is based on relations between components") that uses the SDK objects to identify SDK objects corresponding to development files (col. 3, line 44 "systems that track only at the file level") that are required to support the identified features (col. 3, lines 7-9 "A program is modeled as semantic units called components made up of a list of named data items called properties").

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the method of tracing the dependencies files in creating

Page 5

Art Unit: 2191

the modeled computer program as taught by McInerney into the method of generating the modular code for operating system as taught by Keeley. The modification would be obvious because of one of ordinary skill in the art would be motivated to trace the dependency of a component in software development to provide efficient programming techniques as suggested by McInerney (col. 2, lines 57-64).

Per claim 2:

The rejection of claim 1 is incorporated, and further, Keeley disclose:

wherein the modularized system is a modularized system (col. 2, lines 53-54 "modular operating system") that includes a subset of development files and components of the source operating system (col. 2, lines 62-64 "a software development system including a modular operating system program having a plurality of modules").

Per claim 3:

The rejection of claim 1 is incorporated, and further, Keeley does not disclose generating the dependency model using the SDK objects.

However, McInerney discloses in an analogous computer system generating the dependency model using the SDK objects (col. 3, lines 32-34 "compiler generated dependencies to correctly and efficiently sequence the compilation of components during a build process").

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the method of generating the dependency model using the SDK objects as taught by McInerney into the method of generating the modular code for

operating system as taught by Keeley. The modification would be obvious because of one of ordinary skill in the art would be motivated to generate dependency model using SDK objects in software development to provide efficient programming techniques as suggested by McInerney (col. 2, lines 57-64).

Page 6

Per claim 4:

The rejection of claim 1 is incorporated, and further, Keeley disclose:

- creating SDK objects for the development files (col. 3, lines 33-35 "The development system... a builder receiving the modular operating system"); and
- for all the development files (col. 2, lines 62-63 "software development system"), if a first development file depends on a second development file, including a reference in a first SDK object associated with the first development file to a second SDK object associated with the second development file (col. 7, lines 6-10 "The scanner 50 collects each operating system operation name 40 in a OS module list 53... OS module list 53 includes operating system operations F1 and F2 which are directly referenced in the application source code 20").

Keeley does not explicitly disclose identifying dependencies between development files.

However, McInerney discloses in an analogous computer system identifying dependencies between development files (col. 3, lines 45-46 "Dependency analysis is automatic and is based on relations between components"). The feature of identifying dependencies between development files would be obvious for the reasons set forth in the rejection of claim 1.

Art Unit: 2191

Per claims 6 and 10:

The rejection of claim 1 is incorporated, and further, Keeley does not explicitly disclose tracing

Page 7

references from a first SDK object associated with a feature to at least a second SDK object and,

if the second SDK object includes a reference to a third SDK object, tracing the reference to the

third SDK object.

However, McInerney discloses in an analogous computer system the tracing

dependencies further comprises tracing references from a first SDK object associated with a

feature to at least a second SDK object and, if the second SDK object includes a reference to a

third SDK object, tracing the reference to the third SDK object (col. 4, lines 12-17 "The build

mechanism assumes no preknowledge of dependencies... it "discovers" the dependencies of the

components and keeps track of those dependencies... build mechanism will build a program

from scratch when there is no preexisting dependency information").

Therefore, it would have been obvious to a person of ordinary skill in the art at the time

the invention was made to incorporate the method of identifying dependencies between

development files as taught by McInerney into the method of generating the modular code for

operating system as taught by Keeley. The modification would be obvious because of one of

ordinary skill in the art would be motivated to identify dependencies between development files

to provide an optimize solution for mapping from source to object cod and vice versa as

suggested by McInerney (col. 2, lines 34-56).

Per claims 7 and 11:

The rejection of claim 1 is incorporated, and further, Keeley does not explicitly disclose identifying a data object associated with each identified feature, the data object being associated with a component of the source operating system; and if a data object includes a reference to a first SDK object, tracing the reference to the first SDK object and tracing references, if any, from the first SDK object to a second SDK object.

However, McInerney discloses in an analogous computer system identifying a data object associated with each identified feature (col. 3, lines 29-30 "calculating the dependencies associated with a component"), the data object being associated with a component of the source operating system (col. 1, line 13 "source code editing in a computer program" and col. 1, lines15-16 "useful in developing complex programs, such as operating system (OS) software"); and if a data object includes a reference to a first SDK object, tracing the reference to the first SDK object and tracing references, if any, from the first SDK object to a second SDK object (col. 4, lines 12-17 "The build mechanism assumes no preknowledge of dependencies... it "discovers" the dependencies of the components and keeps track of those dependencies... build mechanism will build a program from scratch when there is no preexisting dependency information").

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the method of identifying dependencies between development files as taught by McInerney into the method of generating the modular code for operating system as taught by Keeley. The modification would be obvious because of one of ordinary skill in the art would be motivated to identify dependencies between development files

to provide an optimize solution for mapping from source to object cod and vice versa as suggested by McInerney (col. 2, lines 34-56).

Per claim 8:

The rejection of claim 1 is incorporated, and further, Keeley disclose:

- naming a data object having a type that identifies the data object as being an SDK object (col. 5, lines 6-7 "a standard set of operation names 40 that are linked to particular modules 44 of the operating system");
- including at least one reference in a first SDK object (col. 5, line 7 "linked to particular modules 44"), the reference pointing to a second SDK object that is required by the first SDK object to function properly (col. 5, lines 6-10 "operation names 40 that are linked to particular modules 44 of the operating system holding corresponding operations, each operation being a routine for performing the desired operation (e.g., a disk read, etc.)"); and
- repeating the previous steps for each development file to be exposed in the SDK (col. 5, lines 10-13 "API 28 provides an upwardly compatible interface to the application program regardless of changes and upgrades in the operating system 18").

Per claim 9:

The rejection of claim 1 is incorporated, and further, Keeley disclose:

- an export list in the first data object that identifies one or more functions that may be exposed by the development file associated with the SDK object (col. 3, lines 19-21 "The scanner program... include in the OS module list subsequent calls from an operating system module (referenced in the OS module list) to other operating system operations").

Per claims 12 and 23:

The rejection of claim 1 is incorporated, and further, Keeley disclose:

- wherein the exporting further comprises storing the selected development files on one or more computer-readable media (col. 4, lines 21-24 "an application program development, the memory 16 will normally hold both an operating system 18 and an editable version of the application program 20 (termed "source code") as well as other programs,").

Claim 13 is the computer program product claim corresponding to method claims 1 and 2 and rejected under the same rational set forth in connection with the rejection of claims 1 and 2 above.

Claim 14 is the computer program product claim corresponding to method claims 1 and 2 and rejected under the same rational set forth in connection with the rejection of claims 1 and 2 above.

Claim 15 is the computer program product claim corresponding to method claim 1 and rejected under the same rational set forth in connection with the rejection of claim 1 above.

Claim 16 is the computer program product claim corresponding to method claim 6 and rejected under the same rational set forth in connection with the rejection of claim 6 above.

Claim 17 is the computer program product claim corresponding to method claim 7 and rejected under the same rational set forth in connection with the rejection of claim 7 above.

Per claim 19:

Keeley disclose:

- identifying features in a source operating system to be included in a modularized system (col. 3, lines 28-30 "identify both operating system modules and portions of those modules needed for the application program");
- selecting development files to be included in an SDK (col. 3, lines 10-11
 "selected modules may be collected and reformed into a smaller operating system"); and
- exporting the selected development files (col. 3, lines 1-4 "A scanner program...

 produce an OS module list of such application calls"); and wherein the

 development files are files required to support development of applications to

 work with the modularized system (col. 3, lines 4-7 "selective compiler program

 receiving the OS module list prepares an operating system comprised of only

 those modules of the modular operating system necessary to perform the

 application").

Keeley does not explicitly disclose by tracing dependencies in a dependency model beginning with data objects associated with the identified features.

However, McInerney discloses in an analogous computer system by tracing dependencies in a dependency model beginning with data objects associated with the identified features (col. 3, lines 41-42 "system automatically keeps track of editing changes in components" and col. 3, lines 45-46 "Dependency analysis is automatic and is based on relations between components").

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the method of tracing the dependencies files in creating the modeled computer program as taught by McInerney into the method of generating the modular code for operating system as taught by Keeley. The modification would be obvious because of one of ordinary skill in the art would be motivated to trace the dependency of a component in software development to provide efficient programming techniques as suggested by McInerney (col. 2, lines 57-64).

Per claims 20 and 24:

The rejection of claim 1 is incorporated, and further, Keeley does not disclose generating the dependency model using the SDK objects.

However, McInerney discloses in an analogous computer system generating the dependency model using the SDK objects (col. 3, lines 32-34 "compiler generated dependencies to correctly and efficiently sequence the compilation of components during a build process").

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the method of generating the dependency model using

the SDK objects as taught by McInerney into the method of generating the modular code for operating system as taught by Keeley. The modification would be obvious because of one of ordinary skill in the art would be motivated to generate dependency model using SDK objects in software development to provide efficient programming techniques as suggested by McInerney (col. 2, lines 57-64).

Per claim 21:

The rejection of claim 19 is incorporated, and further, Keeley disclose:

- creating SDK objects for at least some of the development files (col. 3, lines 33-35 "The development system... a builder receiving the modular operating system");
- for all development files (col. 2, lines 62-63 "software development system") that have an SDK object associated with it, if a first development file depends on a second development file, including a reference in a first SDK object associated with the first development file to a second SDK object associated with the second development file(col. 7, lines 6-10 "The scanner 50 collects each operating system operation name 40 in a OS module list 53... OS module list 53 includes operating system operations F1 and F2 which are directly referenced in the application source code 20").

Keeley does not explicitly disclose identifying dependencies between development files; and wherein the identifying and creating generates the dependency model, and the selecting

Art Unit: 2191

development files further comprises tracing references in SDK objects to determine the development files to select.

However, McInerney discloses in an analogous computer system identifying dependencies between development files (col. 3, lines 45-46 "Dependency analysis is automatic and is based on relations between components"); and wherein the identifying and creating generates the dependency model (col. 3, lines 29-30 "calculating the dependencies associated with a component"), and the selecting development files further comprises tracing references in SDK objects to determine the development files to select 4, lines 12-17 "The build mechanism assumes no preknowledge of dependencies... it "discovers" the dependencies of the components and keeps track of those dependencies... build mechanism will build a program from scratch when there is no preexisting dependency information").

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the method of identifying dependencies between development files as taught by McInerney into the method of generating the modular code for operating system as taught by Keeley. The modification would be obvious because of one of ordinary skill in the art would be motivated to identify dependencies between development files to provide an optimize solution for mapping from source to object cod and vice versa as suggested by McInerney (col. 2, lines 34-56).

Claims 25 and 32 is the computer program product claim corresponding to method claim 1 and rejected under the same rational set forth in connection with the rejection of claim 1 above.

Art Unit: 2191

Claim 26 is the computer program product claim corresponding to method claim 1 and rejected under the same rational set forth in connection with the rejection of claim 1 above.

Claim 27 is the computer program product claim corresponding to method claim 4 and rejected under the same rational set forth in connection with the rejection of claim 4 above.

Claims 29, 30, and 31 are the computer program product claim corresponding to method claim 1 and rejected under the same rational set forth in connection with the rejection of claim 1 above.

Claim 33 is the computer program product claim corresponding to method claim 12 and rejected under the same rational set forth in connection with the rejection of claim 12 above.

Claim 34 is the system claim corresponding to method claim 1 and rejected under the same rational set forth in connection with the rejection of claim 1 above.

Claim 35 is the system claim corresponding to method claim 6 and rejected under the same rational set forth in connection with the rejection of claim 6 above.

Claim 36 is the system claim corresponding to method claim 9 and rejected under the same rational set forth in connection with the rejection of claim 9 above.

Claims 37 and 38 are the system claim corresponding to method claim 1 and rejected under the same rational set forth in connection with the rejection of claim 1 above.

Claim 40 is the system claim corresponding to method claim 1 and rejected under the same rational set forth in connection with the rejection of claim 1 above.

Claim 41 is the system claim corresponding to method claim 12 and rejected under the same rational set forth in connection with the rejection of claim 12 above.

Art Unit: 2191

10. Claims 5, 18, 22, 28, and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keeley in view of US Patent No. 5,901,319 to Hirst (hereinafter called Hirst).

Per claims 5 and 22:

The rejection of claims 1 and 19 respectively, are incorporated, and further, neither Keeley nor McInerney explicitly disclose wherein the development files further comprise at least one or more of the following types of files: library files, documentation files, header files.

However, Hirst discloses in an analogous computer system the development files further comprise at least one or more of the following types of files: library files, documentation files, header files (col. 8, lines 3-10 "The data structure 38, e.g., generic header file, is denoted by code block 120, and data structure 36 is denoted by code block 130... the instruction set includes an include command to the header file 120... number of function calls 114, 116, 118 and 119... function calls are defined by the selected generic defines contained within the second data structure 130").

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the method having one or more files types e.g. header, library, and documentation files as taught by Hirst into the method of generating the modular code for operating system as taught by Keeley. The modification would be obvious because of one of ordinary skill in the art would be motivated to include the header, library, and documantation files in generating code to provide code more robust to run on different types of operating system as suggested by Hirst (col. 1, lines 28-63).

Claim 18 is the computer program product claim corresponding to method claim 5 and rejected

under the same rational set forth in connection with the rejection of claim 5 above.

Claim 28 is the computer program product claim corresponding to method claim 5 and rejected

under the same rational set forth in connection with the rejection of claim 5 above.

Claim 39 is the system claim corresponding to method claim 5 and rejected under the same

rational set forth in connection with the rejection of claim 5 above.

Response to Arguments

11. Applicant's arguments with respect to claims have been considered but they are not

persuasive.

In the remarks, the applicant has argued that:

(i) There is no disclosure or suggestion in Keeley of creating a software development kit

object for at least some of a plurality of development files in a source operating

system that includes development files and components as recited in claim 1.

(ii) Keeley discusses a software development system that prepares an operating system

comprised of only some of the modules of the modular operating system, not creating

a software development kit object as recited in claim 1.

(iii) There is no discussion or mention in McInerney of software development kit object or

tracing dependencies to identify software dependent kit objects as recited in claim 1.

Examiner's response:

Art Unit: 2191

- (i) In response to Applicant's argument with respect to creating... components. It should be noted by the Applicants that Keeley does disclose the limitation creating... components since Keeley's system is developing a system that allows application program to be developed where the application program is part of SDK (col. 2 and 3, lines 45-67 and 1-60, and the attached definition for SDK from google.com), so the limitations creating a software development kit object is inherent in Keeley's system. Applicant only makes general allegations. Therefore, the rejection is proper and maintained herein.
- (ii) In response to Applicant's argument with respect to not creating a software development kit object as recited in claim 1. The similar discussion as applied to argument (i) above, applies here as well. Applicant only makes general allegations.

 Therefore, the rejection is proper and maintained herein.
- (iii) In response to Applicant's argument with respect to McInerney not discloses software development kit object or tracing dependencies to identify software dependent kit objects. It should be noted by the Applicant that SDK is disclosed by Keeley as discussed above in argument (i). For the limitation dependency, McInerney disclosed this limitation by calculating the dependency associated with a component during build process (col. 3, lines 14-53). Applicant only makes general allegations and does not point out any errors in the rejection. Rather, in response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800

Art Unit: 2191

F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). Therefore, the rejection is proper and maintained herein.

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Satish S. Rampuria whose telephone number is (571) 272-3732. The examiner can normally be reached on 8:30 am to 5:00 pm Monday to Friday except every other Friday and federal holidays. Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Tuan Q. Dam** can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Satish S. Rampuria

Patent Examiner/Software Engineer

CHAMELI C. DAS

PRIMARY EXAMINER 7/25/05

Art Unit: 2191

Art Unit 2191 7/25/2005 Page 20